

Quadrant: S
Section: 2
Sublot: 1

Laboratory DiaryGeneral Description of Mix and Materials

Design Method: Super
 Compactive Effort: 85 gyrations
 Binder Performance Grade: 76-22
 Modifier Type: SBS
 Aggregate Type: Grv/Sand/RAP
 Design Gradation Type: Dense

Avg. Lab Properties of Plant Produced Mix

<u>Sieve Size</u>	<u>Design</u>	<u>QC</u>
1":	100	100
3/4":	100	100
1/2":	100	100
3/8":	98	99
No. 4:	68	76
No. 8:	44	48
No. 16:	33	33
No. 30:	22	24
No. 50:	13	13
No. 100:	8	8
No. 200:	5.3	6.0
Asphalt Content:	7.0	7.4
Pill Bulk Gravity:	2.219	2.266
TMD (Rice):	2.311	2.321
Avg Air Voids:	4.0	2.4
Avg VMA:	17.0	13.8

Construction DiaryRelevant Conditions for Construction

Completion Date: October 16, 2006
 24 Hour High Temperature (F): 64
 24 Hour Low Temperature (F): 55
 24 Hour Rainfall (in): 0.01
 Planned Mill / Lift Thickness (in): 1.50
 Paving Machine: Roadtec

Plant Configuration and Placement Details

<u>Component</u>	<u>% Setting</u>
Asphalt Content (Plant Setting)	6.9
-3/8 Monticello	66.0
-3/8 +#8 Monticello	8.0
Mount Olive Sand	10.0
S2 Track RAP	15.0
Hyd Lime	1.0
Approximate Length (ft):	200
Survey Mill / Lift Thickness (in):	1.3
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	355
Avg Section Compaction:	94.6%

General Notes:

- 1) Mixes are referenced by quadrant (E=East, N=North, W=West, and S=South), section number (sequential) and subplot (top=1);
- 2) The total research thickness of all mix performance sections ranges from 3/4 to 4 inches by design;
- 3) The total HMA thickness of all structural study sections (N1 through N10) ranges from 7 to 14 inches by design;
- 4) ARZ, TRZ and BRZ refer to gradations intended to pass above, through and below the restricted zone, respectively;
- 5) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively; and
- 6) VMA values computed from QC volumetrics are based on design values of Gsb (stockpile gravity testing is ongoing).